Docket No.: 237228US0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Juergen SCHUBERT, et al.

SERIAL NO.: 10/656,164

FEB 0 2 2007 W

GROUP ART UNIT: 1755

FILED: SEPTEMBER 8, 2003

EXAMINER: PARVINI, PEGAH

FOR: EFFICIENT MATTING AGENTS BASED

ON PRECIPITATED SILICAS

DECLARATION UNDER 37 C.F.R. 1.132

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR:

I, Dr. June Schubert, hereby declare:

- 1. I am employed by DEGUSSA as ______ and have experience in the field of preparing and analyzing matting compositions.
- 2. Attached at Tab A are two tables. These tables correspond to Tables 1 and 2 in CA 2255456 ("Siray"). Although Siray's tables did not include values for DBP number and tamped density, the attached tables provide this information. These tables demonstrate that examples 1a-1d and 2a-2e in Siray have a DBP number in the range of 320-333 g/100g and tamped density in the range of 72-85 g/l. Thus, none of these examples has a DBP number in the range of 350-400 g/100g or tamped density in the range of 20-70 g/l.
- 3. Nothing in <u>Siray</u> would lead to precipitated silica having <u>both</u> low tamped density (20-70 g/l) <u>and</u> high DBP number (350-400 g/100g). Following the preparation methods set forth in <u>Siray</u>, one skilled in the art would obtain silica having tamped density of 72-85 g/l

and a DBP number of 320-333 g/100g. Moreover, Siray does not contain any teaching or suggestion concerning how to modify the preparation methods to achieve precipitated silica having both low tamped density (20-70 g/l) and high DBP number (350-400 g/100g).

- 4. The statements in paragraph 3 also apply to U.S. patent 5,034,207 ("Kerner"): nothing in Kerner would lead one skilled in the art to precipitated silica having both low tamped density (20-70 g/l) and high DBP number (350-400 g/100g).
- 5. Page 7 of the present application contains data demonstrating that the invention silicas possess surprisingly improved matting properties over comparison silicas. Examples 1, 3, 4 and 5 correspond to the invention silicas. These examples all have gloss 60° values which are surprisingly lower than the gloss value of Example 2 (DBP number of 333 g/100 g) and the comparative composition containing Acematt HK 450.
- 6. This difference in matting efficiency, as demonstrated by lower gloss values, between the invention silicas and the comparative silicas was surprising and unexpected given the similarity of the silicas.
- 7. The improved matting efficiency obtained with the claimed silicas are representative of the present invention. That is, I would expect precipitated silicas having the following characteristics

BET

 $350 - 550 \,\mathrm{m}^2/\mathrm{g}$

DBP number

350 - 400 g/100 g

 d_{50}

 $5-15 \mu m$, and

tamped density

20 - 70 g/L

to possess improved matting efficiency like those of the exemplified invention silicas. I have no reason to expect otherwise.

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- 8. The difference in matting efficiency between the invention silicas and the comparative silicas demonstrates the surprising and unexpected benefit derived from having properties associated with the invention silicas.
- 9. The improved matting efficiency associated with the invention silicas is commercially significant. Clearly, silicas which possess more effective matting properties are more commercially viable as matting agents than less effective silicas.
- 10. The undersigned petitioner declares further that all statements made herein of her own knowledge are true and that all statements made on information and belief are believe to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

11. Further deponent sayeth not.

Dr. Jurgen

Signature

23.01.2007

Date